LK-40 LK-42

USER'S GUIDE GUÍA DEL USUARIO



CASIO_®

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A. (not applicable to other areas).

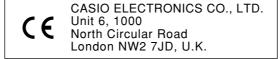
NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



This mark is valid in the EU countries only. Please keep all information for future reference.

478B-E-002A

Welcome...

To the happy family of satisfied CASIO electronic musical instrument owners! To get the most out of the many features and functions of the keyboard, be sure to carefully read this manual and keep it on hand for future reference.

Important!

When using batteries, be sure to replace them or shift to one of the alternate power sources whenever you notice any of the following symptoms.

- Dim power supply indicator
- Instrument does not turn on
- Dim, difficult to read display
- Abnormally low speaker/headphone volume
- Distortion of sound output
- Occasional interruption of sound when playing at high volumes
- Sudden power failure when playing at high volumes
- Dimming of the display when playing at high volume
- · Abnormal rhythm pattern and demo tune play
- · Dimming of keyboard lights when notes sound
- Loss of power, sound distortion, or low volume when playing from a connected computer or MIDI device

Main Features

- □ 100 amazingly realistic tones
- □ Enhanced auto-accompaniment function for greater versatility
 - 100 built in auto-accompaniment patterns.
- □ 100 Built-in Song Bank tunes
 - A total of 100 built-in Song Bank tunes comes built in for playback enjoyment or play-along practice.
- □ A three-step lesson function lets you develop your musical skills by following the keys as they light (Three Step Lesson System).
 - First you become familiar with the timing of the notes by watching the keys light as you
 playback one of the 100 built-in Song Bank tunes. Next, practice playing along at a pace
 that's comfortable for you. Finally, try playing along at the normal tempo for the Song Bank
 tune.
- □ Auto Accompaniment
 - Simply specify a chord and the keyboard automatically produces the matching rhythm, bass, and chord patterns. One-touch fill-ins make accompaniments sound interesting and natural.
- Transpose Function
 - An easy operation instantly changes the key of the keyboard.
- □ MIDI compatibility
 - Connecting to another MIDI device lets you sound notes on both this keyboard and the connected device by playing on this keyboard. You can even playback commercially available pre-recorded MIDI data.

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Safety Precautions

Symbols =

Various symbols are used in this operating manual and on the product itself to ensure that the product is used safely and correctly, and to prevent injury to the user and other persons as well as damage to property. Those symbols along with their meanings are shown below.



WARNING

This indication stipulates matters that have the risk of causing death or serious injury if the product is operated incorrectly while ignoring this indication.



CAUTION

This indication stipulates matters that have the risk of causing injury as well as matters for which there is the likelihood of occurrence of physical damage only if the product is operated incorrectly while ignoring this indication.

Symbol Examples ■



This triangle symbol (\triangle) means that the user should be careful. (The example at left indicates electrical shock caution.)



This circle with a line through it (**(**) means that the indicated action must not be performed. Indications within or nearby this symbol are specifically prohibited. (The example at left indicates that disassembly is prohibited.)



The black dot () means that the indicated action must be performed. Indications within this symbol are actions that are specifically instructed to be performed. (The example at left indicates that the power plug must be unplugged from the electrical socket.)

⚠ WARNING

Please use caution regarding the handling of the AC adaptor.

- Do not use a voltage other than the indicated power supply voltage. Use of a voltage other than that indicated may cause fire or electrical shock.
- If the power cord should become damaged (exposed wires, disconnection, etc.), purchase a new AC adaptor. Use of a damaged power cord may cause fire or electrical shock.
- Do not cut or damage the power cord. Also do not place heavy objects on top
 of it or subject it to excessive heat. Damage to the power cord may cause fire or
 electrical shock.



- Do not attempt to shape the power cord or subject it to excessive bending, twisting or pulling. This may cause fire or electrical shock.
- Please use the adaptor specified for this instrument. Use of another adaptor may cause fire, electrical shock, or malfunction.

Do not locate the instrument or its stand on an uneven or unstable surface.

Locating the instrument or its stand on an uneven or unstable surface can
cause it to fall, creating the danger of personal injury.

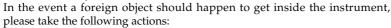
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Do not place containers containing water or other liquids on the instrument.

 Do not place the following objects on the instrument. Placing such objects on the instrument may cause fire or electrical shock if they spill and get inside the instrument.



- Containers filled with water or other liquids (including vases, potted plants, cups, cosmetics and medicines)
- Small metal objects (including hairpins, sewing needles and coins)
- · Flammable objects



- 1. Turn power off.
- 2. Unplug the AC adaptor from the wall outlet.
- 3. If there are any batteries loaded in the keyboard, remove them.
- Do not touch the batteries directly with your hands when removing them.
 They may be hot or battery fluid may be leaking from them.
- 4. Consult with the dealer where you purchased the keyboard or with an authorized CASIO service provider.



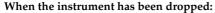
Do not disassemble or modify the instrument.

 Never attempt of take apart or modify the instrument, its accessories, or separately sold options. Doing so may cause fire, electrical shock or malfunction. Consult your dealer concerning all inspection, adjustment or repair of internal components.



Do not use if there is an abnormality or malfunction.

- Do not use the instrument if there appear to be abnormalities such as the presence of smoke or abnormal odor. Also do not use the instrument if there appear to be malfunctions such as the power not coming on or sound not being produced. Use under such conditions may cause fire or electrical shock. In such cases, take the following actions immediately. Never attempt to repair the instrument yourself.
 - 1. Turn power off.
- 2. Unplug the AC adaptor from the wall outlet.
- 3. If there are any batteries loaded in the keyboard, remove them.
- Do not touch the batteries directly with your hands when removing them.
 They may be hot or battery fluid may be leaking from them.
- 4. Consult with the dealer where you purchased the keyboard or with an authorized CASIO service provider.



- In the case the instrument has been dropped or damaged, take the following actions. Continued use may cause fire or electrical shock.
 - 1. Turn power off.
 - 2. Unplug the AC adaptor from the wall outlet.
 - 3. If there are any batteries loaded in the keyboard, remove them.
 - Do not touch the batteries directly with your hands when removing them.
 They may be hot or battery fluid may be leaking from them.
 - 4. Consult with the dealer where you purchased the keyboard or with an authorized CASIO service provider.



 Never allow anyone to place the plastic bags of the instrument, its accessories, and its separately sold options over their heads. Doing so may cause suffocation. Particular caution is required in homes with small children.









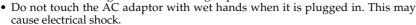


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AC Adaptor

- Do not locate the power cord in close proximity to heaters or other heating appliances. This may cause the cord to melt leading to possible fire or electrical shock
- When unplugging the AC adaptor from an electrical outlet, always make sure to
 pull on the adaptor itself and not the cord. Pulling excessively on the cord may
 cause it to be damaged or break leading to possible fire or electrical shock.



- When not using the instrument for an extended period such as when traveling, always make sure to unplug the AC adaptor from the electrical outlet for safety reasons.
- After use turn off the power switch of the instrument and unplug the AC adaptor from the electrical outlet.
- At least once a year, unplug the AC adaptor from the power outlet and clean the area around the prongs of the plug. Dust build up around the prongs can create the danger of fire.

Batteries

- Improper battery use may cause batteries to rupture and leak. This may cause
 injury, malfunction of the instrument or discoloration of furniture and other
 articles that come into contact with battery fluid. Take care to observe the following.
 - Install batteries so their polarity (+/-) matches that indicated on the instrument.
 - For safety and to prevent possible leakage of battery fluid, always make sure to remove batteries from the instrument when you do not plan to use it for a long time.
 - Always make sure that the batteries making up a set are all of the same type.
 - Never combine new batteries with old ones.
 - Never dispose of batteries by incinerating them. Never short or disassemble batteries, and do not expose them to excessive heat.
 - Replace dead batteries as soon as possible.
 - Never attempt to recharge batteries.

Transport

 When transporting the instrument, always make sure to unplug the AC adaptor from the electrical outlet and confirm that all other external connections have been disconnected. Only then should the instrument be transported. If the above is not done, the cord may be damaged leading to possible fire or electrical shock.



Care

 Whenever caring, make sure to first unplug the AC adaptor from the electrical outlet. Also remove the instrument's batteries if battery power is being used.



Location

- Never locate the instrument in areas subject to high humidity or heavy accumulation of dust. Doing so may cause fire or electrical shock.
- Never locate the instrument in areas subject to grease splatters or steam, such as in a kitchen or near a humidifier. Doing so may cause fire or electrical shock.



Do not place keyboard on lacquered furniture.

 The instrument's silicone rubber feet may eventually blacken or scar lacquered surfaces. Use felt cloth pads to insulate the feet or preferably use a CASIO musical instrument stand designed for your keyboard.

 $E ext{-}4$







Do not place heavy objects on the instrument.

 Do not place heavy objects on the instrument. This may cause the instrument to tip over or break resulting in injury.

Volume

 Very high volume levels can damage hearing. Avoid using the instrument at very high volume settings for long periods. Consult with a physician immediately if you experience impaired hearing or ringing in the ears.

Do not get onto the instrument or stand.

• Do not crawl on top of the instrument or its optional stand. Particular caution is required in homes having small children. This may cause the instrument or stand to tip over and break resulting in injury.

Optional Stand (sold separately)

• Carefully assemble the stand following the assembly instructions that come with it. Securely tighten all bolts, nuts, and fasteners, and make sure that you mount the instrument correctly onto the stand. Incorrectly or insufficiently tightening screws, or incorrectly mounting the instrument onto the stand can cause the stand to tip over or the instrument to fall off the stand, possibly leading to injury.

Accessories and options

- Use only accessories that come with the instrument or authorized CASIO options (sold separately). Use of non-specified accessories or options may cause fire, electrical shock, or malfunction.
 - You may not be able to see the keyboard keys light under direct sunlight or in other brightly lit areas.

Care of Your Keyboard

Avoid heat, humidity or direct sunlight.

Do not overexpose the instrument to direct sunlight, or place it near an air conditioner, or in any extremely hot place.

Do not use near a TV or radio.

This instrument can cause video or audio interference with TV and radio reception. If this happens, move the instrument away from the TV or radio.

Do not use lacquer, thinner or similar chemicals for cleaning.

Clean the keyboard with a soft cloth dampened in a weak solution of water and a neutral detergent. Soak the cloth in the solution and squeeze until it is almost dry.

Note

• You may notice lines in the finish of the case of this keyboard. These lines are a result of the molding process used to shape the plastic of the case. They are not cracks or breaks in the plastic, and are no cause for concern.

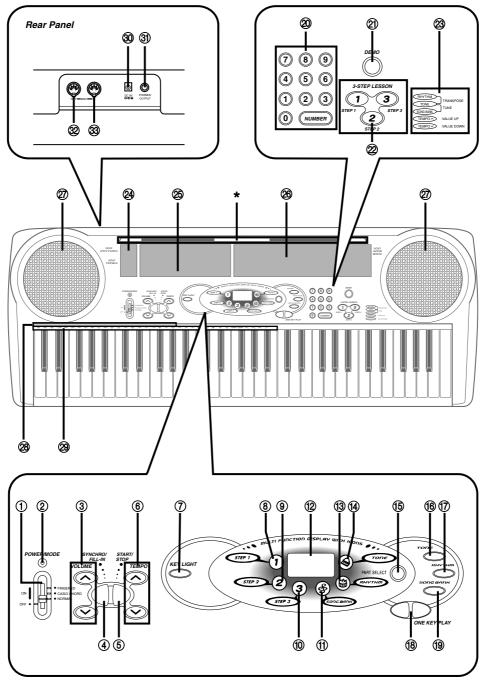
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Control Locations



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- 1 POWER/MODE selector
- ② Power indicator
- **③ VOLUME buttons**
- (4) SYNCHRO/FILL-IN button
- **⑤ START/STOP button**
- **6** TEMPO buttons
- (7) KEY LIGHT button
- ® STEP 1 icon
- 9 STEP 2 icon
- (10) STEP 3 icon
- **(11)** SONG BANK icon
- (12) Display
- **(3)** RHYTHM icon
- **14** TONE icon
- (5) PART SELECT button
- **16 TONE button**
- **77 RHYTHM button**
- **(8) ONE KEY PLAY buttons**
- (9) SONG BANK button

- 20 Number buttons
- 2 DEMO button
- 2 3-STEP LESSON buttons
- ② TRANSPOSE/TUNE operation guide
- **24 100 RHYTHMS list**

See "Rhythm List" on page A-3 for details

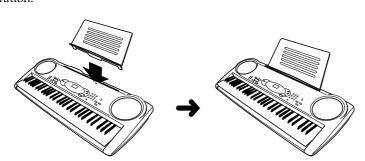
- 25 100 TONES list
- 26 100 SONG BANK list
- 27 Speakers
- **28 CHORD ROOT NAMES**
- **29** Percussion instrument list
- 30 DC 9V jack
- ③ PHONES/OUTPUT jack

For connection of commercially available headphones. Output from the speakers is automatically cut when headphones are connected.

- **32 MIDI OUT terminal**
- 33 MIDI IN terminal

* Attachment of Score Stand

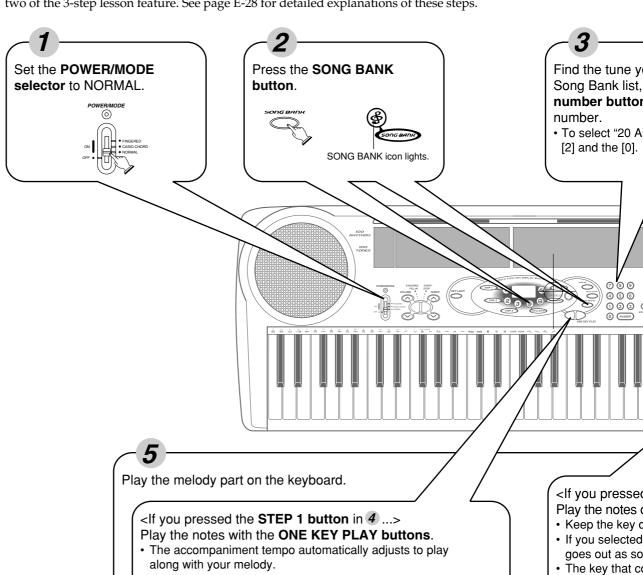
Insert the score stand into the slot at the top of the keyboard as shown in the illustration.



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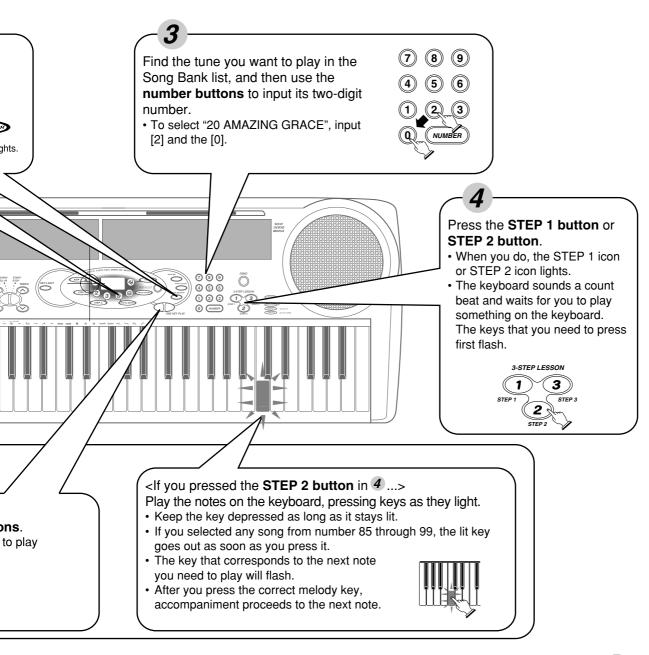
Quick Reference

This section provides a quick overview of keyboard operation using steps one and two of the 3-step lesson feature. See page E-28 for detailed explanations of these steps.



you need to pla After you press accompanimer

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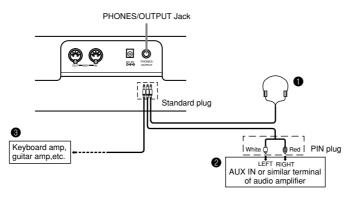


Connections

■ Phones/Output Jack

Before connecting headphones or other external equipment, be sure to first turn down the volume settings of the keyboard and the connected equipment. You can then adjust volume to the desired level after connections are complete.

[Rear Panel]



Connecting Headphones (Figure 1)

Connecting headphones cuts off output from the keyboard's built-in speakers, so you can play even late at night without disturbing anyone.

Audio Equipment (Figure 2)

Connect the keyboard to an audio equipment using a commercially available connecting cord with a standard plug on one end and two PIN plugs on the other end. In this configuration, you normally set the input selector of the audio equipment to the terminal (usually marked AUX IN or something similar) where the cord from the keyboard is connected. See the user documentation that comes with your audio equipment for full details.

Musical Instrument Amplifier (Figure 3)

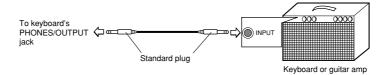
Use a commercially available connecting cord to connect the keyboard to a musical instrument amplifier.

Note

 Be sure to use a connecting cord that has standard plugs on the ends you connect to the keyboard and amplifier.

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Connection Example



Accessories and Options

Use only the accessories and options specified for this keyboard. Use of non-authorized items creates the danger of fire, electrical shock, and personal injury.

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Power Supply

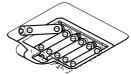
This keyboard can be powered by current from a standard household wall outlet (using the specified AC adaptor) or by batteries. Always make sure you turn the keyboard off whenever you are not using it.

Using batteries

Always make sure you turn off the keyboard before loading or replacing batteries.

To load batteries

- 1. Remove the battery compartment cover.
- Load 6 AA-size batteries into the battery compartment.
 - Make sure that the positive (+) and negative (-) ends are facing correctly.
- 3. Insert the tabs on the battery compartment cover into the holes provided and close the cover.



The keyboard may not function correctly if you load or replace batteries with power turned on. If this happens, turning the keyboard off and then back on again should return functions back to normal.

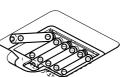
Important Battery Information

- The following shows the approximate battery life provided by different battery
 - Standard battery life: Approximately 1 hour (SUM3/R6P) Approximately 4 hours (AM3/LR6)

Both of the above values are standard battery life at normal temperature, with the keyboard volume at a medium setting. Temperature extremes or playing at very loud volume settings can shorten battery life.

- Any of the following symptoms indicate low battery power. Replace batteries as soon as possible whenever any of the following occurs.
 - Dim power supply indicator
 - Instrument does not turn on
 - Dim, difficult to read display
 - Abnormally low speaker/headphone volume
 - Distortion of sound output
 - Occasional interruption of sound when playing at high volumes
 - Sudden power failure when playing at high volumes
 - Dimming of the display when playing at high volume
 - Abnormal rhythm pattern and demo tune play
 - Dimming of keyboard lights when notes sound
 - Loss of power, sound distortion, or low volume when playing from a connected computer or MIDI device

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Important!

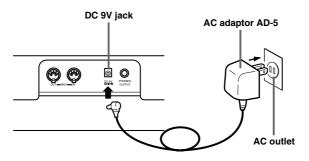
Improper handling of batteries can cause them to burst and leak, which creates the danger of personal injury or damage due to contact with battery acid. Be sure to note the following important precautions.

- Always make sure that the positive (+) and negative (-) poles are facing correctly as indicated inside the battery compartment.
- To avoid damage caused by leaking batteries, be sure to remove batteries from the keyboard whenever you leave it unattended for long periods (such as when leaving on a trip).
- Never mix batteries of different types.
- · Never mix old batteries with new ones.
- Never discard batteries by incinerating them, do not allow their poles to be shorted (connected to each other), never take batteries apart, and do not expose batteries to direct heat.
- Replace batteries as soon as possible after any sign they are getting weak.
- Never attempt to recharge batteries.

■ Using the AC Adaptor

Make sure that you use only the AC adaptor specified for this keyboard.





Also note the following important warnings and precautions when using the AC adaptor.

Warning!

- Take care to avoid any damage to or breakage of the power cord. Never place any heavy objects on the power cord or expose it to direct heat. Doing so creates the danger of power cord damage, fire, and electrical shock.
- Use only the specified AC adaptor. Use of another type of adaptor creates the danger of fire and electrical shock.

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Caution!

- For safety sake, be sure to unplug the AC adaptor from the wall outlet whenever leaving the keyboard unattended for a long time (such as when leaving on a trip).
- Always turn off the keyboard and unplug the AC adaptor from the wall outlet when
 you are not using the keyboard.

Important!

- Make sure that the keyboard is turned off before connecting or disconnecting the AC adaptor.
- Using the AC adaptor for a long time can cause it to become warm to the touch. This
 is normal and does not indicate malfunction.

■ Auto Power Off

When you are using battery power, keyboard power turns off automatically whenever you leave it on without performing any operation for about 6 minutes. When this happens, move the POWER/MODE selector to the OFF position and then back to NORMAL, CASIO CHORD, or FINGERED to turn power back on.

Note

 Auto Power Off is disabled (it does not function) when you are using the AC adaptor to power the keyboard.

■ Power On Alert

Keyboard keys light to alert you if you leave power on and do not perform any operation for about 6 minutes. Note that keys light only, and no sound is produced. When this happens, press any button or keyboard key to clear the power on alert.

Note

 Power on alert operates only when you are powering the keyboard using the AC adaptor. It does not operate when you are using batteries.

■ To disable Auto Power Off and power on alert

Hold down the TONE button while turning on the keyboard to disable Auto Power Off and power on alert.

- When these functions are turned off, the keyboard does not turn off automatically
 and no alert is performed no matter how long it is left with no operation being
 performed.
- Auto Power Off and power on alert are enabled again when you manually turn off power and then turn it back on again.

 $E ext{-}16$

Basic Operations

This part of the manual provides you with the basic information you need to use your keyboard.

■ To switch power on and off

1. Set the POWER/MODE selector to NORMAL.



- 2. Press the keyboard keys.
- 3. The VOLUME up and down arrow buttons are used to adjust main volume.



- Pressing ⊗ or ⊗ displays the currently set volume setting. Press ⊗ or ⊗ again to change the volume setting.
- Volume can be adjusted over a range of 0 (minimum) to 9 (maximum).
- Volume is set to 7 when the power is turned on.
- A setting of 0 turns down the volume completely.
- The volume can be changed continuously by continuously pressing down the ⊗ or ⊗ buttons.
- \bullet Pressing the \odot and \odot buttons simultaneously sets the volume to level 7
- Numeric values can be entered directly with the number buttons after the VOLUME button has been pressed in step 3.
- The amount that the volume settings raises or lowers the volume level differs according to the tone, auto accompaniment, or song you are using.
- 4. To switch power off, set the POWER/MODE selector to OFF position.



■ To change tones

- 1. Look at the tone list printed on the keyboard's console and find the one you want.
 - A total of 100 tones are available.
- 2. Press the TONE button.



- When you do, the TONE icon lights.
- The number for the tone that is currently selected is shown on the display.





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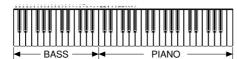
- 3. Use the number buttons to input the 2-digit number that identifies the tone you want to select.
 - 789
 - **4 5 6**
 - 1 2 3
 - (NUMBER
- Always enter two digits for the tone number. If you enter only one digit, the display will automatically return to the previous tone number setting after a few seconds.
- If you change the tone setting while a keyboard key is depressed, the tone does not change until you release the key and press a keyboard key again.
- With certain tones (such as percussion sounds and sound effects), there may be very little or no change at all in the pitch, no matter which keyboard key you press.
- If you input the wrong first digit for a tone number, you can return to the previous setting by pressing the TONE button.

Keyboard split tones

Some of the preset tones split the keyboard and assign two or more sounds. With such a preset tone, the sound produced depends on what position of the keyboard you play. For example, BASS/PIANO (tone 90) puts BASS on the left and PIANO on the right of the keyboard.

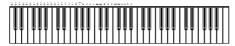
<Example>

BASS/PIANO (No.90)



PERCUSSION (No.99)

PERCUSSION (tone 99) assigns 35 percussion sound to the keyboard as illustrated below. The sound assigned to each key are indicated above the keyboard.



- BASS DRUM
- SIDE STICK
- Θ ACOUSTIC SNARE
- HAND CLAP
- **ELECTRIC SNARE**
- LOW FLOOR TOM
- **CLOSED HI-HAT**
- HIGH FLOOR TOM
- PEDAL HI-HAT
- LOW TOM
- **OPEN HI-HAT**
- LOW MID TOM

- HIGH MID TOM
- **CRASH CYMBAL 1**
- HIGH TOM
- RIDE CYMBAL 1
- CHINESE CYMBAL
- RIDE BELL
- **TAMBOURINE**
- SPLASH CYMBAL
- COWBELL
- **CRASH CYMBAL 2**
- **CLAVES**
- RIDE CYMBAL 2

- ₩ HIGH BONGO
- **₩** LOW BONGO
- MUTE HIGH CONGA
- OPEN HIGH CONGA
- LOW CONGA
- ⊖ HIGH TIMBALES
- ⇔ LOW TIMBALES
- √ HIGH AGOGO
- S LOW AGOGO CABASA
- MARACAS

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 There are no sounds assigned to any keyboard keys from B4 onward when the "99 PERCUSSION" tone is selected.

Digital Sampling

A number of the tones that are available with this keyboard have been recorded and processed using a technique called digital sampling. To ensure a high level of total quality, samples are taken in the low, mid, and high ranges and then combined to provide you with sounds that are amazingly close to the originals. You may notice very slight differences in volume or sound quality for some tones when you play them at different positions on the keyboard. This is an unavoidable result of multiple sampling, and it is not a sign of malfunction.

Polyphony

The term polyphony refers to the maximum number of notes you can play at the same time. This keyboard has 12-note polyphony, which includes the notes you play as well as the rhythms and auto-accompaniment patterns that are played by the keyboard. This means that when a rhythm or auto-accompaniment pattern is being played by the keyboard, the number of notes (polyphony) available for keyboard play is reduced. Also note that some of the tones offer only 6-note polyphony.

- When rhythm or auto accompaniment is playing, the number of sounds simultaneously played is reduced.
- Though you can sound up to 12 notes at one time, only the last four keyboard keys pressed light up.

■ Other Useful Functions

To change the key of the keyboard

The transpose feature of this keyboard lets you raise or lower its key in semitone increments. This means you can easily match to suit someone's voice, and you can eliminate sharps and flats from music making it easier to play.

 While in any mode besides the Song Bank Mode (indicated when the SONG BANK icon is lit), hold down the TONE button and press the RHYTHM button.



 Perform step 2 within five seconds after performing step 1.



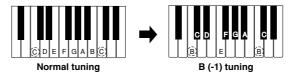
2. Use the **TEMPO buttons** to change the key of the keyboard.



- Example: To change the tuning to B (indicated by -1 since it is one tone below C, which is the normal tuning of the keyboard).
- See page E-20 for the indicator that appears for each key.



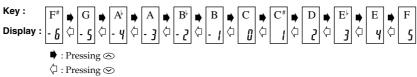
Indicator remains on the display for a few seconds.



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E-19

<Keys and their indicators>



<Note Names>



Notes

- You cannot change the transpose setting while the keyboard is in the Song Bank Mode
- In step 2 of the above operation, you could also use the number buttons [0] to [5] to specify C through F.
- Pressing both of the TEMPO buttons (⊗/⊗) at the same time returns the transpose setting to C(0).
- The transpose setting is automatically set to C(0) whenever you turn keyboard power on.
- The transpose setting is automatically set to C(0) whenever you press the SONG BANK button.
- The pitch of a transposed note depends on the tone you are using. If the transpose operation causes a note to exceed its upper range, the same note from the lowest octave available is substituted.
- The transpose operation does not affect tone number 99 (PERCUSSION) or auto-accompaniment rhythms.
- Transposing tones 75 through 79 and 90 through 96 changes the range of keys to which each of the tones is assigned.
- The transpose setting is automatically set to C(0) whenever you press the DEMO button.

To tune the keyboard

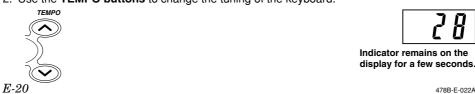
A simple operation lets you tune the keyboard to another musical instrument.

While in any mode besides the Song Bank Mode (indicated when the SONG BANK icon is lit), hold down the TONE button and press the SONG BANK button.
 Perform step 2 within five seconds after performing

step 1.



2. Use the **TEMPO buttons** to change the tuning of the keyboard.



Notes

- In step 2 of the above procedure, you could also use the number buttons to input a value from 00 to 50.
- Pressing both of the TEMPO buttons (⊘/⊙) at the same time returns the tuning setting to 00.
- Pressing the SONG BANK button changes the tuning setting to 00.
- The tuning setting does not affect any of Song Bank tunes.
- You can tune the keyboard within a range of approximately ±50 cents (100 cents = 1 semitone).
- The tuning setting is automatically set to 00 whenever you turn the keyboard on.
- Pressing the DEMO button changes the tuning setting to 00.
- The tuning operation does not affect rhythm (percussion).

■ Playing the demo tunes

You can set up the keyboard to continually play its 100 built-in Song Bank tunes. Keyboard keys light to indicate the melody notes of the demo tune as it plays.

To start demo tune play

- 1. Switch power on and adjust the volume level.
- 2. Press the **DEMO button**.



- Demo tune play continues in a sequential endless loop until you switch it off.
- The number of the demo tune currently playing is shown on the display.
- You can play along on the keyboard while a demo tune is playing back.

• The Song Bank tunes play back in tune number sequence, starting from

- 3. You can change the demo tune play being played by pressing the **number buttons**.
 - 789
 - **4 5 6**
 - 1 2 3
 - NUMBER

To stop demo tune play

Press the DEMO button again to stop demo tune play.

the one you select.



Notes

- Only the following buttons are enabled while a Song Bank tune is being played.
 - VOLUME buttons
 - Number buttons
 - START/STOP button
 - POWER/MODE selector (OFF)
 - DEMO button
 - KEY LIGHT button
- You cannot change the tone being used for the melody of a Song Bank tune.

■ Playing rhythms

This keyboard features a collection of 100 exciting built-in rhythm patterns. Each pattern provides percussion back up for all your performances.

To select and play a rhythm

1. Set the POWER/MODE selector to NORMAL.



- 2. Find the rhythm you want to use in the "Rhythm List" (page A-3) and note its rhythm number.
- 3. Press the RHYTHM button.



- When you do, the RHYTHM icon lights.
- The number that appears on the display indicates the currently selected rhythm.





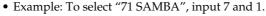
- 4. Use the **number buttons** to input the 2-digit rhythm number for the rhythm you want to use.
 - 789

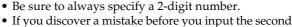
















- digit, press the RHYTHM button to return to the previously set rhythm number. • You can change to another rhythm even while the
- 5. Press the **START/STOP button** to start play of the rhythm.

current rhythm is sounding.



- When you do, the selected rhythm starts to sound.
- 6. Use the **TEMPO buttons** to adjust the tempo of the rhythm.



- Pressing ⊙ or ⊙ displays the current tempo setting. Press ⊙ or ⊙ again to change the tempo setting.
- Each time you press one of the TEMPO buttons while the tempo value is displayed, the tempo setting changes one step, within the range of 040 to 255.



- The initial default tempo setting when you turn on power is 120.
- · After displaying the current tempo setting by pressing a TEMPO button in step 6, you can also input the tempo setting you want by inputting a three-digit value with the number buttons.

- Holding down either of the TEMPO buttons changes the tempo setting at high speed.
- To reset the tempo to the standard value of each rhythm, press both TEMPO buttons.
- 7. To stop rhythm play, press the START/STOP button again.



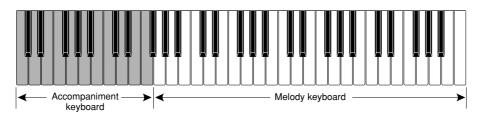
■ Using auto-accompaniment

This keyboard features 100 accompaniment patterns that let you add full accompaniments to your performances automatically. With auto-accompaniment, part of the keyboard is reserved as an accompaniment keyboard. As you play your chords on the accompaniment keyboard, the accompaniment patterns adjusts automatically to follow the progression you play.

You get a choice between two different methods for chord play. FINGERED lets you play chords as you normally do, while CASIO CHORD makes it possible to play fully formed chords with one finger.

About the accompaniment keyboard

The lower (left) 1.5 octaves are reserved for use as an accompaniment keyboard whenever you select CASIO CHORD or FINGERED with the POWER/MODE selector. The panel above the accompaniment keyboard keys is marked with the names of the notes they play. The remainder of the keyboard (the part that is not included in the accompaniment keyboard) is called the melody keyboard. Please be sure to remember these terms, because they will be used throughout the rest of this manual.



(The entire keyboard can be used for melody play while the POWER/MODE selector is set to NORMAL.

Using the CASIO CHORD system

The CASIO CHORD system lets you easily play the four main types of chords. Play of chords is simplified as shown in the chart below.

Keys	Chord Type	Example	
Pressing one accompaniment key	Major chord	C (C Major Chord)	CDEFGABCDEF
Pressing two accompaniment keys	Minor chord	Cm (C Minor Chord)	CDEFGABCDEF
Pressing three accompaniment keys	Seventh chord	C7 (C Seventh Chord)	CDEFGABCDEF
Pressing four accompaniment keys	Minor seventh chord	Cm7 (C Minor Seventh Chord)	CDEFGABCDEF

Notes

- The bottom (leftmost) note that you play determines the name of the chord. If the bottom note is a C for example, the keyboard produces a C chord.
- When pressing more than one accompaniment key, it makes no difference whether the keys to the right of the bottom note are white or black.

To play a CASIO CHORD auto-accompaniment

1. Use the **POWER/MODE selector** to select CASIO CHORD.



- 2. Select an auto-rhythm as described under "To select and play a rhythm" on page E-22.
- 3. Start play of the rhythm.



- If you want start play of the normal rhythm pattern, press START/
- You can also use synchro start (page E-27) to start rhythm play.

 $E extstyle{24}$

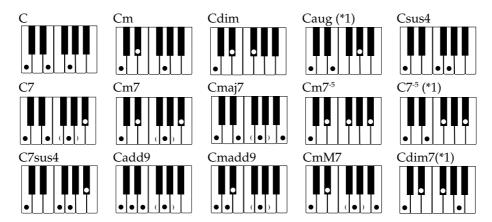
- 4. Press either one or up to four keys on the accompaniment keyboard, and the corresponding accompaniment starts to play automatically.
- 5. Continue pressing different keys on the accompaniment keyboard to play your chord progression.
- 6. To stop auto-accompaniment play, press the START/STOP button again.



Using standard fingerings

The FINGERED mode lets you play a wider variety of chords. In this mode, you can start play of an accompaniment pattern by pressing three or four of the accompaniment keyboard keys.

This keyboard is capable of recognizing 15 different chords. The following shows the fingerings of these chords with a root of C. Note that you can omit the fifth notes (which are shown inside parentheses in the illustrations below) to produce 7, m7, maj7, add9 and mM7 chords.



*1 With this chords, the lowest note in your fingering is always used as the root. Make sure that your fingering correctly identifies the root you want to use.

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Important!

If you play one or two notes only in the left hand, or three notes that do not make up
a recognizable chord formation, no sound will be produced. FINGERED mode
requires a conventional three or four-note chord formation to produce an autoaccompaniment. Also, note that auto-chords only work in conjunction with rhythm
patterns, and not independently of them.

Notes

• The above examples show only one of the possible fingerings for each chord. Note that you can play the notes that form a chord in any combination. Each of the following fingerings for example, produces the same C chord.



• See the "Fingered Chord Charts" on page A-4 for information on the fingerings of chords for all roots.

To play a FINGERED auto-accompaniment

1. Use the **POWER/MODE selector** to select FINGERED.



- 2. Select an auto-rhythm as described under "To select and play a rhythm" on page E-22.
- 3. Start play of the rhythm.



- If you want start play of the normal rhythm pattern, press START/
- You can also use synchro start (page E-27) to start rhythm play.
- 4. Play a chord on the accompaniment keyboard to start play of the auto-accompaniment.
- 5. Continue pressing keys on the accompaniment keyboard to play your chord progression.
- 6. To stop auto-accompaniment play, press the START/STOP button again.



■ Improvising with the preset patterns

Pressing the START/STOP button to start rhythm play causes the normal version of the pattern to be played. You can also play a variation of the rhythm using the operation described below.

■ Using fill-in rhythm

You can insert a fill-in rhythm by pressing the SYNCHRO/FILL-IN button while an auto-rhythm plays.



■ Using Synchro start

You can start the rhythm and accompaniment pattern at the same time, with your play of the accompaniment keyboard. To do this, follow the steps below.

1. Set the POWER/MODE selector to the CASIO CHORD or FINGERED position.



- 2. Select an auto-rhythm.
- 3. Press the SYNCHRO/FILL-IN button.



4. Press the accompaniment keys to play the first chord. As soon as you do, the auto-accompaniment pattern begins to play.



5. To stop the auto-accompaniment pattern play, press the **START/STOP button**.



Note

• If you set the POWER/MODE selector to NORMAL in step 1 on page E-22, the operation in step 4 starts play of the rhythm (percussion instruments) only.

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Three Step Lesson System

■ Using Three Step Lesson System

Even individuals who cannot play the keyboard at all can follow along with the 100 built-in Song Bank tunes with the ONE KEY PLAY buttons. You can also use the Three Step Lesson System to learn at your own pace. Play slowly at first until you are able to play along at normal speed.

Of the 100 built-in tunes, numbers 00 through 84 feature auto-accompaniment (auto-accompaniment tunes), while 85 through 99 are played using both hands (two-hand tunes).

The Three Step Lesson System can be used with the following three-step lesson plan to master keyboard play.

Step 1: Easy Play

Pressing the ONE KEY PLAY buttons plays the melody for an auto-accompaniment tune or the right hand part for two-hand tunes. In both cases, the auto-accompaniment (the right hand part in the case of two-hand tunes) is played automatically by the keyboard. In place of the ONE KEY PLAY buttons, you can also press any key of the keyboard to play the melody or right hand part. The purpose of this step is to familiarize yourself with the timing required to play melody notes.

Step 2: Slow Play

Press the keys that light as they teach you the correct notes to play. You can play at the pace you want, because the auto-accompaniment or left hand part waits until you press the correct key.

Step 3: Normal Play

At this level, the keyboard's keys still light to indicate which notes to play, but they no longer wait for you to press the correct key. The auto-accompaniment or left hand part is played at normal speed.

Notes

- You may not be able to see the keyboard keys light under direct sunlight or in other brightly lit areas.
- You can press the ONE KEY PLAY, STEP 1, STEP 2, and STEP 3 buttons at any time, except while a demo tune is playing. To return the keyboard to its normal mode, press the SONG BANK button.

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Three Step Lesson System Tempo Setting

You can use the procedure in step 6 of the procedure on page E-22 to set the tempo of the left-hand part for Song Bank and Three Step Lesson System play (Step 1 through 3).

This means you can use a slower tempo at the beginning, and then increase it as you learn. Press both of the TEMPO buttons (\otimes and \otimes) at the same time to return the tempo to its initial preset setting.

To play a built-in Song Bank tune

_	Proce the SONG PANK button until the SONG PANK icon lights
1.	Look up the number of the tune you want to play in the Song Bank list

SONG BANK	The number that appears is the current selected Song Bank number.	0	00
		SONG BANK ico	n

3. Input the two digit number for the tune you want to play.

- 789
- **4 5 6**
- 1 2 3
- () (NUMBER

4. Press the **START/STOP button** to start play of the selected tune.



• The tune you select plays repeatedly, with the keyboard keys lighting to indicate the melody notes.

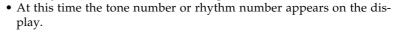
5. To stop Song Bank tune play, press the START/STOP button again.



6. To exit the SONG Mode, press the SONG BANK button again.



• When you do, the SONG BANK icon goes out.



Notes

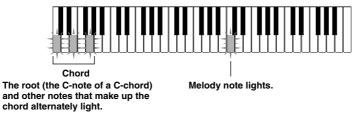
- Always enter two digits for the Song Bank number.
- You can input a Song Bank tune number even while another Song Bank tune is playing.
- If you input the wrong first digit for a Song Bank tune number, you can return to the previous setting by pressing the SONG BANK button.
- The RHYTHM button is disabled in the Song Bank Mode. If you want to play a rhythm, press the SONG BANK button to return to the normal mode first.

Using the Three Step Lesson System with Song Bank Tunes

When you use a Song Bank tune with melody guide, the Three Step Lesson System teaches you which melody notes to play.

Auto-accompaniment Song Bank Tune

Chord and melody part keys light.

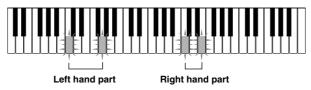


Note

 Some Song Bank tunes use chords (such as C6) that cannot be played with the FINGERED setting (page E-25). In the FINGERED Mode, even if you finger the chords according to the keys that are lit by Melody Guide, chords may sound different from the ones produced during Melody Guide play.

Two-hand Song Bank Tune

Left hand and right hand part keys light.

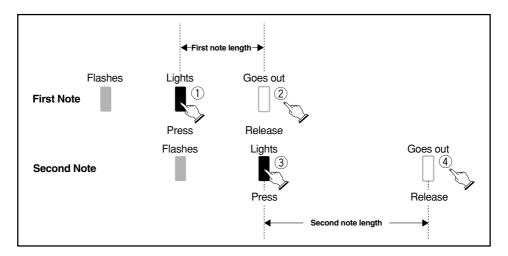


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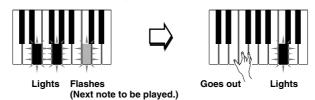
How the Three Step Lesson System operates in Steps 1 through 3

When using an auto-accompaniment Song Bank tune with the Three Step Lesson System, the lights indicate not only the note you should play, but how long you should play it (how long you should keep the key depressed). The following describes what illumination of keys indicates.

- Note Guide: A lit key indicates the note to be played.
- Length Guide: Key remains lit for as long as note should be played.
- Next Note Guide: A flashing key indicates the next note to be played.
- Consecutive Note Guide: When a key lights, goes out momentarily, and then lights again, it indicates that the same note should be played in succession.



Note lengths are not indicated by the Three Step Lesson System when playing a two-hand tune with Step 1 and Step 2. The lit key goes out as soon as you press the correct keyboard key and the next note's key flashes.



When playing a two-hand tune with Step 3, the applicable keyboard key remains lit as long as its note plays. In this case, however, the key for the next note to be played does not flash. Keys light when their notes start to play.

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Turning Off Key Lighting

1. Press the KEY LIGHT button.



• Press the KEY LIGHT button again to turn key lighting back on.

Note

- Key lighting turns on automatically in any of the following cases:
 - When keyboard power is turned on.
 - When demo tune play is started.
 - When the SONG BANK button is pressed in the normal mode (page E-29 to steps 1 to 3).
 - When the power on alert function operates (page E-16).

Number of Simultaneously Lit Keys

Up to four keyboard keys can be lit at the same time.

To change the tone used for the melody of a Song Bank tune

1. Following step 3 of the procedure on page E-29, press the **TONE button**.



 Both the SONG BANK icon and TONE icon light, along with the tone number of the tone that is currently assigned to the keyboard.



2. Input a value to select the tone you want to use.

9	(8)	9

• Example: 30 VIOLIN







Notes

- You cannot change the tone of the two-hand Song Bank tunes (number 85 through 99).
- Selecting another Song Bank tune switches the tone setting to the newly selected tune's preset melody tone.
- The tone assigned to the keyboard is the same one specified for the melody of the Song Bank tune.
- The above procedure can be used to change the Song Bank melody tone before starting play or while play is already in progress.

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■ Step 1: Easy Play

You can press the ONE KEY PLAY buttons or any of the keyboard keys to play along with the melody (right hand part) of the Song Bank tune. You do not have to worry about pressing the right key, so you can concentrate on getting the timing right.

1. Press the STEP 1 button.



- When you do, the STEP 1 icon lights.
- After a count sounds, the keyboard stands by and waits for you to play the first note of the tune. If the tune includes intro measures, the keyboard enters standby after the intro measures are complete.



2. Press the ONE KEY PLAY buttons to play each note of the tune.



- The accompaniment (left hand) part of the tune follows along as you play the melody (right hand) part.
- The keyboard key that corresponds to the next note to be played flashes, and lights when you play the note.
- The rhythm (percussion) part does not sound.
- 3. Try pressing any one of the keyboard keys in place of the ONE KEY PLAY buttons.
 - Pressing any keyboard key plays the correct melody (right hand part) note.
 - Pressing more than one (up to four) keyboard keys plays the corresponding number of melody notes.



The correct note is played even if you do not press the key that is lit.

4. To interrupt an Easy Play session, press the START/STOP button.



• When you do, the STEP 1 icon goes out.

■ Step 2: Slow Play

With Slow Play, you have to play the note that the Three Step Lesson System indicates. But don't worry - the accompaniment (left hand part) waits until you can play the correct note before continuing. This means you can take your time and play at your own pace.

1. Press the STEP 2 button.



- When you do, the STEP 2 icon lights.
- After a count sounds, the keyboard stands by and waits for you to play the first note of the tune. If the tune includes intro measures, the keyboard enters standby after the intro measures are complete.



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- 2. Play the notes indicated by the Three Step Lesson System.
 - The accompaniment (left hand) part of the tune follows along as you play the melody (right hand) part.
 - The keyboard key that corresponds to the next note to be played flashes, and lights when you play the note.
 - The rhythm (percussion) part does not sound.



Press keyboard keys as they light. More than one key may light when you are playing a two-hand tune. Press all keys that light.

3. To interrupt an Slow Play session, press the START/STOP button.



When you do, the STEP 2 icon goes out.

■ Step 3: Normal Play

Normal Play also shows you which notes to play, but unlike Slow Play, it does not wait for you to press the key. The accompaniment part is played at normal speed, no matter what you play (or don't play) on the keyboard.

1. Press the STEP 3 button.



- When you do, the STEP 3 icon lights.
- Play starts after a count sounds.



STEP 3 icon

- 2. Play along on the keyboard, following the keys as they light.
 - The accompaniment (left hand) part of the tune plays at normal speed, regardless of what you play on the keyboard.
 - With a auto-accompaniment tune, the keyboard key that corresponds to the next note to be played flashes, and lights when the note should be played.
 - With a two-hand tune, the applicable keyboard key remains lit as long as its note plays. In this case, however, the key for the next note to be played does not flash. Keys light when their notes start to play.



3. To interrupt a Normal Play session, press the START/STOP button.



When you do, the STEP 3 icon goes out.

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■ To practice the left hand part

Once you master right hand part play, you can use the two-hand tunes (numbers 85 through 99) to practice left hand part.

1. Press the STEP 1, STEP 2, or STEP 3 button.



- When you do, the STEP 1, STEP 2, or STEP 3 icon lights.
- 2. Press the PART SELECT button to switch the left hand play.



- After a count beat sounds, the right-hand part starts to play and the keys for the left-hand part notes flash.
- 3. Press the PART SELECT button to return the part selection to its previous setting.



4. To interrupt play of the melody, press the **START/STOP button**.



• When you do, the STEP 1, STEP 2, or STEP 3 icon goes out.

Note

• The PART SELECT button is operational only while STEP 1, STEP 2, or STEP 3 is playing or paused (by the START/STOP button).

To check if the right hand or left hand part is currently selected (two-hand tunes only)

The Three Step Lesson System tells you what part is selected whenever you press the STEP 3 button. Pressing the STEP 3 button causes the leftmost three keys to light when the left hand part is selected, and the rightmost three keys to light when the right hand part is selected.



Left hand part selected

Right hand part selected

MIDI

■ What is MIDI?

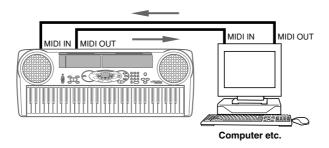
The letters MIDI stand for Musical Instrument Digital Interface, which is the name of a worldwide standard for digital signals and connectors that makes it possible to exchange musical data between musical instruments and computers (machines) produced by different manufacturers. MIDI compatible equipment can exchange keyboard key press, key release, tone change, and other data as messages.

Though you do not need any special knowledge about MIDI to use this keyboard as a stand-alone unit, MIDI operations require a bit of specialized knowledge. This section provides you with an overview of MIDI that will help to get you going.

MIDI Connections

MIDI messages are send out through the MIDI OUT terminal of one machine to the MIDI IN terminal of another machine over a MIDI cable. To send a message from this keyboard to another machine, for example, you must use a MIDI cable to connect the MIDI OUT terminal of this keyboard to the MIDI IN terminal of the other machine. To send MIDI messages back to this keyboard, you need to use a MIDI cable to connect the other machine's MIDI OUT terminal to the MIDI IN terminal of this keyboard.

To use a computer or other MIDI device to record and playback the MIDI data produced by this keyboard, you must connect the MIDI IN and MIDI OUT terminals of both machines in order send and receive data.



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MIDI Channels

MIDI allows you to send the data for multiple parts at the same time, with each part being sent over a separate MIDI channel. There are 16 MIDI channels, numbered 1 through 16, and MIDI channel data is always included whenever you exchange data (key press etc.)

Both the sending machine and the receiving machine must be set to the same channel for the receiving unit to correctly receive and play data. If the receiving machine is set to Channel 2, for example, it receives only MIDI Channel 2 data, and all other channels are ignored.

With this keyboard, messages received over MIDI Channels 1, 2, 3, 4, and 10 can be used for multi-timbre play of up to five different instrument parts. The tone and volume settings for these five channels must be controlled by messages sent from an external device.

Conversely, keyboard operations are sent to external devices over MIDI Channel 1.

■ General MIDI

General MIDI standardizes MIDI data for all sound source types, regardless of manufacturer. General MIDI specifies such factors as tone numbering, drum sounds, and available MIDI channels for all sound sources. This standard makes it possible for all MIDI equipment to reproduce the same nuances when playing General MIDI data, regardless of the manufacturer of the sound source.

Though the sound source of this keyboard is not General MIDI compatible, you can still connect the keyboard to a computer or other MIDI equipment to playback General MIDI data that is widely available in stores, over computer networks, and from other sources.

Notes

- General MIDI data made up of a large number of parts may not play correctly on this keyboard.
- You will have most success playing back General MIDI data that has few parts and is made up of data on channels 1, 2, 3, 4, and 10.

Messages

There is a wide variety of messages defined under the MIDI standard, and this section details the particular messages that can be sent and received by this keyboard.

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■ NOTE ON/OFF

This message sends data when a key is pressed (NOTE ON) or released (NOTE OFF). A NOTE ON/OFF message include a note number (to indicate note whose key is being pressed or released) and velocity (keyboard pressure as a value from 1 to 127). NOTE ON velocity is always used to determine the relative volume of the note. This keyboard does not receive NOTE OFF velocity data.

Whenever you press or release a key on this keyboard, the corresponding NOTE ON or NOTE OFF message is sent by constant velocity from the MIDI OUT terminal.

■ PROGRAM CHANGE

This is the tone selection message. PROGRAM CHANGE can contain tone data within the range of 0 to 127.

A PROGRAM CHANGE message (0 to 99) is sent out through this keyboard's MIDI OUT terminal whenever you manually change its tone number. Receipt of a PROGRAM CHANGE message from an external machine changes the tone setting of this keyboard.

This keyboard can send tone data within the range of 00 to 99 and receive tone data within the range of 0 to 127*.

* When GM mapping is turned on. When turned off, tone data is received in the range of 0 to 99.

Note

• Channel 10 is for the drum part only, and it does not receive Program Change messages. When receiving MIDI data, it sounds percussion sounds produced by this keyboard.

■ PITCH BEND

This message carries pitch bend information for smoothly sliding the pitch upwards or downwards during keyboard play. This keyboard does not send pitch bend data, but is can receive such data.

■ CONTROL CHANGE

This message adds effects such as vibrato and volume changes applied during keyboard play. CONTROL CHANGE data includes a control number (to identify the effect type) and a control value (to specify the on/off status and depth of the effect). The following is a list of data that can be received using CONTROL CHANGE.

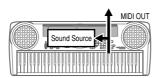
Effect	Control Number
VOLUME	7
HOLD1	64
MODULATION	1

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■ LOCAL CONTROL (Default: on) /GM mapping (Default: off)

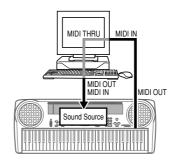
This setting determines whether or not the keyboard and sound source of this keyboard are connected internally. When recording to a computer or other external device connected to this keyboard's MIDI IN/OUT terminal, it helps if you turn LOCAL CONTROL off.

- **on:** Anything played on the keyboard is sounded by the internal sound source and simultaneously output as a MIDI message from the MIDI OUT terminal.
- oFF: Anything played on the keyboard is output as a MIDI message from the MIDI OUT terminal, without being sounded by the internal sound source. Turn LO-CAL CONTROL off whenever you are using the MIDI THRU function of a computer or other external device. Also note that no sound is produced by the keyboard if LOCAL CONTROL is turned off and no external device is connected.



LOCAL CONTROL On

Notes played on the keyboard are sounded by the internal sound source and output as MIDI messages from the MIDI OUT terminal.



LOCAL CONTROL Off

Notes played on the keyboard are output as MIDI messages from the MIDI OUT terminal, but not sounded directly by the internal sound source. The MIDI THRU terminal of the connected device can be used to return the MIDI message and sound it on this keyboard's sound source.

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■ To turn off LOCAL CONTROL

While holding down the RHYTHM button, press the SONG BANK button.

• This also turns on GM mapping.

■ To turn on LOCAL CONTROL

While holding down the RHYTHM button, press the PART SELECT button.

• This turns off GM mapping.

Note that LOCAL CONTROL is also turned on automatically when any of the following buttons are pressed.

POWER (to turn on power), START/STOP (to start rhythm or Song Bank tune play), ONE-KEY PLAY, STEP 1, STEP 2, STEP 3, DEMO (to start demo tune play).

Note

• See the GM Tone Map List at the back of this manual for information about tone assignments while GM mapping is turned on.

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Technical Reference

■ Troubleshooting

Be sure to check the following table whenever you experience problems with keyboard operation.

Symptom	Cause	Action
No sound when keyboard keys are pressed.	1. Power supply problem.	1. Correctly attach the AC adaptor, make sure that batteries poles (+/-) are facing correctly, and check to make sure that batteries are not dead.
	2. Volume is set to 0. 3. Headphones are plugged	2. Press the VOLUME ⊚ button.3. Unplug the headphones
	into the keyboard. 4. The POWER/MODE selector is in the CASIO CHORD or FINGERED position.	from the PHONES/OUT-PUT jack. 4. Normal play is not possible on the accompaniment keyboard while the POWER/MODE selector is set to CASIO CHORD or FINGERED. Change the POWER/MODE selector setting to NORMAL.
	5. Tone "99 PERCUSSION" is selected and you are press- ing keys that are not as- signed tones.	5. While "99 PERCUSSION" is selected, you can use only keys to the left of B ¹ 4. These keys are marked on the console with illustrations of percussion instruments.
Any of the following symptoms while using battery power. Dim power supply indicator Instrument does not turn on Dim, difficult to read display Abnormally low speaker/headphone volume Distortion of sound output Occasional interruption of sound when playing at high volumes Sudden power failure when playing at high volumes Dimming of the display when playing at high volume Abnormal rhythm pattern and demo tune play Dimming of keyboard lights when notes sound Loss of power, sound distortion, or low volume when playing from a connected computer or MIDI device	Low battery power	Replace the batteries with a set of new ones or use the AC adaptor.

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Symptom	Cause	Action
Keyboard keys remain lit.	Keyboard is standing by for keyboard play in Step 2.	 Press the lit keys and continue with Step 2 play. Press the START/STOP button to stop Step 2.
Keyboard keys light but no sound is produced.	 Power on alert is telling you that power is left on. 	 Press any button or key- board key to resume nor- mal operation with the key- board in its initial power on setting.
RHYTHM button does not work.	• Keyboard is in the Song Bank Mode.	Press the SONG BANK button to return to the Normal Mode.
Song Bank tone does not change.	• A two-hand Song Bank tune (number 85 through 99) is selected.	• Change to an auto accompaniment Song Bank tune (number 00 to 84). You cannot change the tone setting of a two-hand Song Bank tune (number 85 through 99).
Cannot change TRANS- POSE/TUNE settings.	Keyboard is in the Song Bank Mode.Demo tune play is in progress.	Press the SONG BANK button to return to the Normal Mode. Stop demo tune play.
Cannot play correctly even when the lit keyboard keys are pressed with Step 1.	More than one key is being pressed at the same time, which causes accompani- ment to advance the corre- sponding number of notes (up to four).	When using Step 1, press keyboard keys one by one.
No sound is produced when playing MIDI data from a computer.	MIDI cables are not con- nected properly.	Connect MIDI cables properly.
Playing on the keyboard produces an unnatural sound when connected to a computer.	The computer's MIDI THRU function is turned on.	Turn off the MIDI THRU function on the computer or turn off LOCAL CONTROL on the keyboard.

E-42

■ Specifications

Model: LK-40/LK-42

Keyboard: 61 standard-size keys; 5 octaves

Key Light System: Can be turned on and off (up to 4 keys can be lit at the

same time)

Tones: 100 presets

Polyphony: 12 notes maximum

Three Step Lesson System: Number of simultaneosly lit keys; 4

Three steps

Playback: 1 tune repeat playback

Auto-accompaniment: Rhythm patterns 100 presets

Tempo Adjustable, (216 steps, \downarrow = 40 to 255),

initial value: 120

Chords Two systems: CASIO CHORD, FINGERED

Other Fill-in pattern, Synchro start

Song Bank tunes: 100 tunes

Other Functions: Transpose ($F^{\#}$ to C to F: half-note)

Tuning Adjustable A4 = Approx. 440 Hz, ± 50 cents,

Initial value: A4 = Approx. 440 Hz

MIDI: 5 multi-timbre receive

Speakers: 10 cm diameter x 2 (Output: 2W+2W)

Digital Volume Control: Main volume; 10 steps (0 to 9), initial value: 7

I/O Terminals: MIDI Terminals IN, OUT

Power Supply DC 9V jack

Headphones/Output Stereo standard jack

(Output is monaural.)

[output impedance: 78Ω , output voltage: 4V (RMS) MAX],

Power Supply: 2-way AC/DC power sources;

Batteries 6 AA-size

Battery life approximately 1 hour

on R6P (SUM3) manganese batteries/ 4 hours on LR6 (AM3) alkaline batteries

AC adaptor AD-5

Auto Power Off: Approximately 6 minutes after the last operation

(Operates during battery use only)

Power Consumption: 9 V = 7.7 W

Dimensions: $94.4 \times 36.3 \times 11.8 \text{ cm} (37^{3}/_{16}\text{"} \times 14^{5}/_{16}\text{"} \times 4^{5}/_{8}\text{"})$ **Weight:** Approximately 4.5 kg (9.9 lbs) (without batteries)

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^{*} Designs and specifications are subject to change without notice.

Appendix/Apéndice

■ GM Tone Map List

■ Lista de asignaciones de sonido GM

Nº de sonido/Nombre de sonido			
in de solitao/indilibre de solitao	N	^⁰ GM	
00 GRAND PIANO 0			
01 BRIGHT PIANO 1			
02 HONKY-TONK 3			
03 E GRAND PIANO 2			
04 ELEC PIANO 1 4			
05 ELEC PIANO 2 5			
06 ELEC PIANO 3 8			
07 ELEC PIANO 4 9			
08 HARPSICHORD 6			
09 CLAVI 7			
10 ELEC ORGAN 1 16			
11 ELEC ORGAN 2 17			
12 ELEC ORGAN 3 18			
13 ELEC ORGAN 4 15			
14 CHURCH ORGAN 19			
15 PIPE ORGAN 104			
16 REED ORGAN 20			
17 ACCORDION 21			
18 BANDONEON 23			
19 HARMONICA 22			
20 NYLON STR GT 24			
21 STEEL STR GT 25			
22 JAZZ GUITAR 26			
23 CLEAN GUITAR 27			
24 MUTE GUITAR 28			
25 DIST GUITAR 29	30	31	84
26 ACOUSTIC BASS 32			
27 ELEC BASS 33	34	35	
28 SLAP BASS 36	37		-
29 BANIO 105			
30 VIOLIN 40	41		
31 CELLO 42	43		
32 HARP 45	46	47	
33 STRINGS 1 48	55		
34 STRINGS 2 49			
35 STRINGS 3 44			-
36 SYNTH-STR 1 50			
37 SYNTH-STR 2 51			
38 CHOIR AAHS 52	91		
39 SYNTH-VOICE 53	85		
40 TRUMPET 56			
41 TUBA 58			
42 BRASS SECTION 57			
43 FRENCH HORN 1 60			
44 FRENCH HORN 2 59			
45 BRASS 1 61			
46 BRASS 2 69			

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Tone No./Tone Name		GM	No.	
$\mathbf{N}^{\scriptscriptstyle \Omega}$ de sonido/Nombre de sonido		Nº	GM	
47 SYNTH-BRASS 1	62			
48 SYNTH-BRASS 2	63	83		
49 SYNTH-BRASS 3	70			
50 SOPRANO SAX	64			
51 ALTO SAX	65			
52 TENOR SAX	66	67		
53 OBOE	68			
54 CLARINET	71			
55 PICCOLO	72			
56 FLUTE	73			
57 RECORDER	74	79		
58 FLUTE ENSEMBLE	75	76	77	
59 WHISTLE	78	70	11	
60 SYNTH-LEAD 1	87			
61 SYNTH-LEAD 2	81	86		
62 SYNTH-LEAD 3	80	00		
63 CALLIOPE	82			
64 SYNTH-PAD 1	89			
	90			
65 SYNTH-PAD 2	90			
66 SYNTH-PAD 3		00	00	
67 BOWED GLASS	92	93	98	
68 HALO PAD	54	94		
69 SYNTH-BASS	38	39		
70 RAIN DROP	96			
71 SF	103			
72 SOUNDTRACK	97			
73 SPACE PAD	101			
74 SYNTH-SFX	102			
75 VEHICLE	125			
76 TELEPHONE	124			
77 SPACE	126			
78 INVADER	127			
79 FUNNY	123			
80 STRINGS PIANO	106			
81 STRINGS EP	88	107		
82 CHOIR EP	108			
83 CHOIR ORGAN	109			
84 STRINGS GUITAR	99	110		
85 STRINGS HARP	111			
86 BRASS STRINGS	112			
87 VIB PAD	113			
88 12STR GUITAR	114			
89 CHOIR STRINGS	115			
90 BASS/PIANO	100	116		
91 BASS/E PIANO	117	110		
92 BASS/VIB	118			
93 BASS/NYLON STR GT	119			
94 BASS/DIST GUITAR	120			
95 STRINGS/PIANO	121			
96 STRINGS/TRUMPET	122			
97 VIBRAPHONE	10	11	14	
98 MARIMBA	12	13	14	-
	12	13		
99 PERCUSSION	12	10		

 $A ext{-}2$ 478B-E-092A

■ Rhythm List

■ Lista de ritmos

PO	PS I	32	HEAVY ROCK	66	FRENCH WALTZ
00 01 02 03	CLUB POP FUNKY POP 1 RAP POP FUNKY POP 2	33 34 35 36	8 BEAT ROCK STRAIGHT ROCK HEAVY METAL TWIST	67 68 69	SLOW WALTZ SERENADE TANGO 1
04	SOUL BALLAD	37 38	NEW ORLNS R&R CHICAGO BLUES	LA	ΓΙΝ Ι
05 06 07 08	POP BALLAD LOVE BALLAD FUNKY POP 3 EPIC BALLAD	39	R & B	70 71 72	BOSSA NOVA SAMBA MAMBO
09	LITE POP	40 41	ZZ/FUSION BIG BAND SLOW SWING	73 74 75	RHUMBA CHA-CHA-CHA MERENGUE
PO	PS II	42	SWING	76	REGGAE
10 11 12 13	16 BEAT SHUFFLE 16 BEAT POP 16 BEAT FUNK 8 BEAT POP	43 44 45 46	FOX TROT JAZZ WALTZ MODERN JAZZ COOL	77 78 79	BOLERO TANGO 2 LAMBADA
14	8 BEAT SOUL	47	HARD BOP	LA	TIN II/VARIOUS I
15 16 17	8 BEAT SHUFFLE DANCE POP 1 DANCE POP 2	48 49	ACID JAZZ LATIN FUSION	80 81	PUNTA CUMBIA
18	POP FUSION	DA	NCE/FUNK	82 83	SKA TEX-MEX
19	FOLKIE POP	50 51	TECHNO POP RAVE	84 85	SALSA FOLKLORE
RO	CK I	52	CLUB GROOVE	86	PASODOBLE
20 21 22 23	ROCK WALTZ SLOW ROCK 1 SLOW ROCK 2 SOFT ROCK 1	53 54 55 56	TECHNO TRANCE HOUSE GROOVE SOUL	87 88 89	RUMBA CATALANA SEVILLANA FOLK
24	SOFT ROCK 2	57	DISCO	VA	RIOUS II
25 26 27	SOFT ROCK 3 POP ROCK 1 POP ROCK 2	58 59	RAP FUNK	90 91 92	COUNTRY BLUEGRASS TOWNSHIP
28	50'S ROCK	EU	ROPEAN	92	FAST GOSPEL
29	60'S SOUL	60 61	POLKA 1 POLKA 2	94 95	SLOW GOSPEL ADANI
RO	CK II	62	MARCH 1	96	BALADI
30 31	4 BEAT ROCK ROCK	63 64 65	MARCH 2 WALTZ VIENNESE WALTZ	97 98 99	BAROQUE ENKA NEW AGE

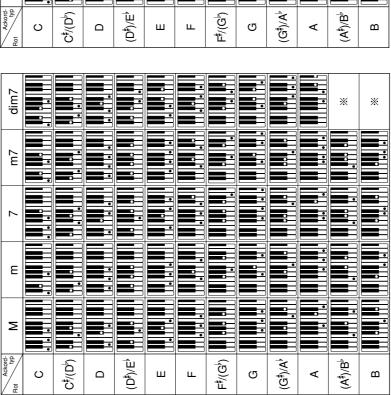
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Fingered Chord ChartsCuadros de acordes digitados

ang

m7-5

M7												
Ackord- Rot typ	O	C‡/(□ [♭])	Ω	(D [‡])/E [♭]	Ш	Щ	F#/(G ^b)	ŋ	(G [‡])/A [♭]	4	(A [‡])/B [♭]	Ф
dim7											*	*
7												
٤												
Σ												
Ackord-	ပ	C‡(□),	D	(D#)/E [♭]	Ш	Ŧ	F#/(G [♭])	മ	(G [#])/A [♭]	∢	(A [‡])/B [♭]	В



A-4

478B-E-094A

Ж

Ж

※ Cannot be specified in FINGERED setting because of accompaniment keyboard limitations, but augmented chords made up of the same component notes (with different base note) can be used instead.

add9

2-5

mM7

m add9

7sus4

Chords with same component notes as B' aug....D aug, F#

aug Chords with same component notes as B aug..... E^{\flat} aug, G aug

% No puede especificarse en el ajuste FINGERED debido a las limitaciones del teclado de acompañamiento, pero en su lugar pueden usarse los acordes aumentados compuestos por las mismas notas componentes (con diferente nota básica).

Acordes con las mismas notas componentes como B^\flat aumentada ... D aumentada, F^\sharp aumentada.

Acordes con las mismas notas componentes como B aumentada ... E^b aumentada, G aumentada.

F#(G)

(G[#])/A

(A[#])/B

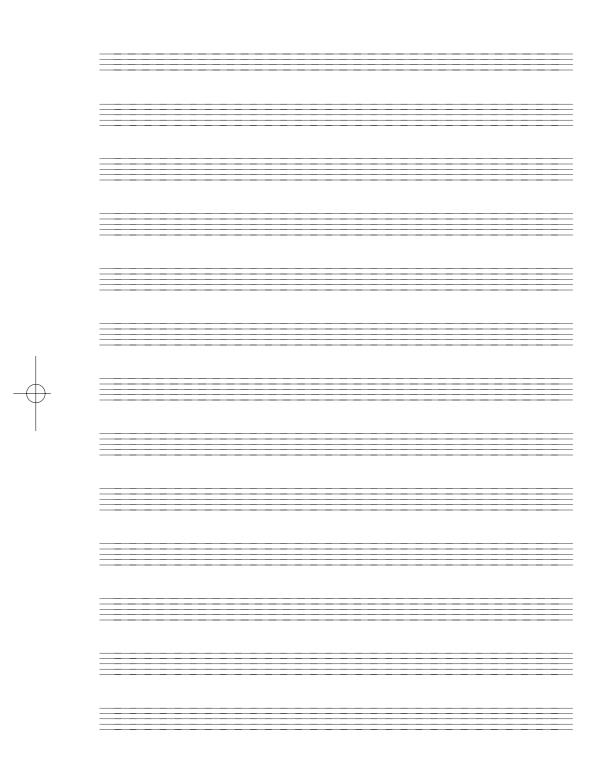
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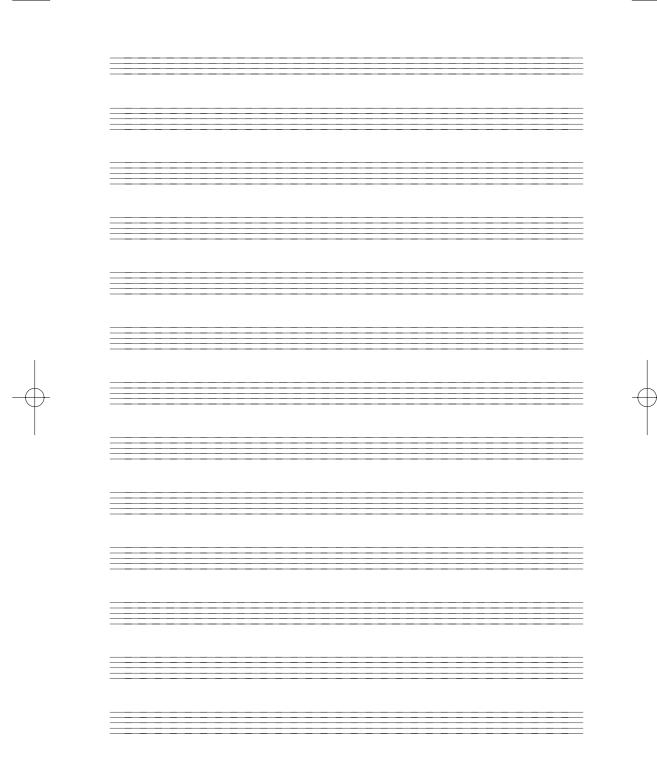
⋖

(D[#])/E[♭]

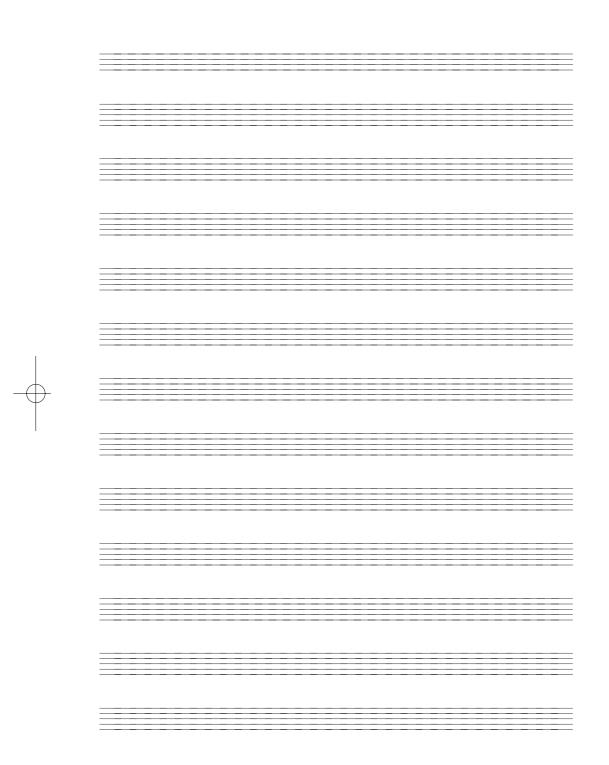
Δ

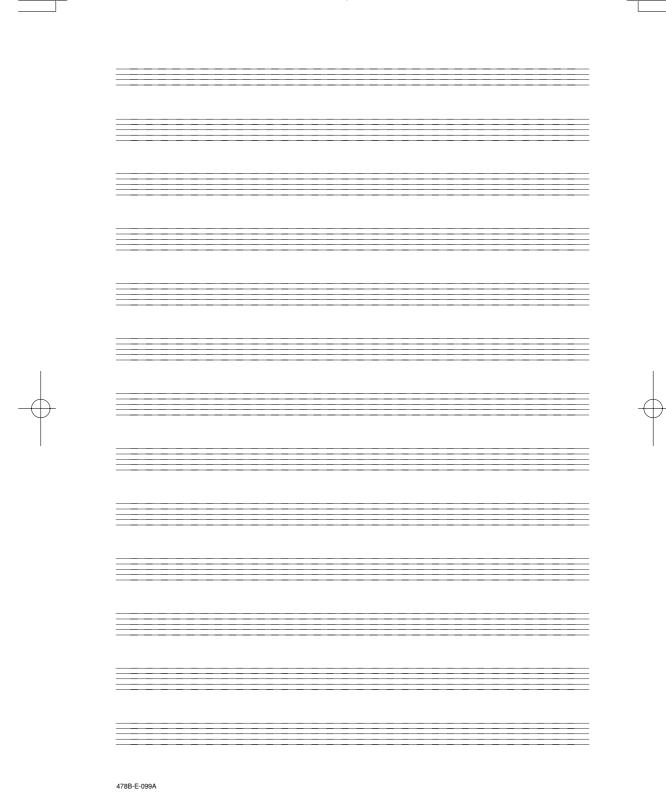
C‡/(□,)

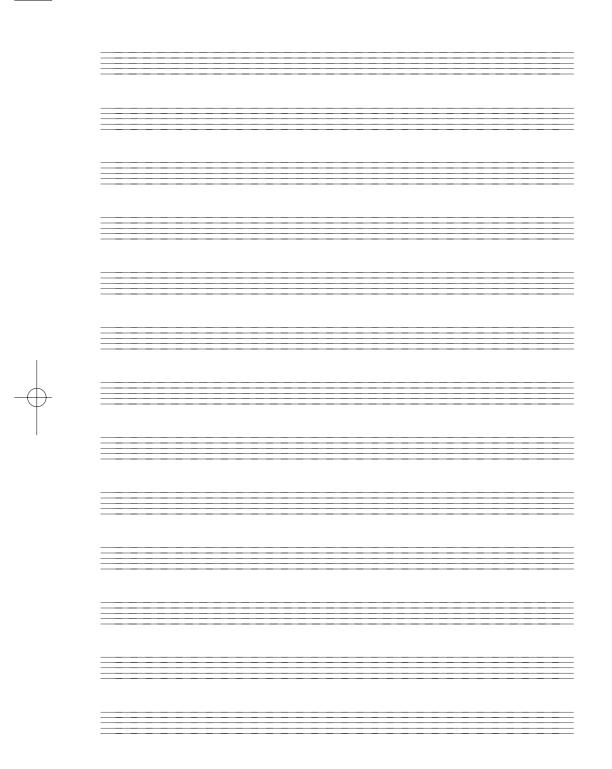


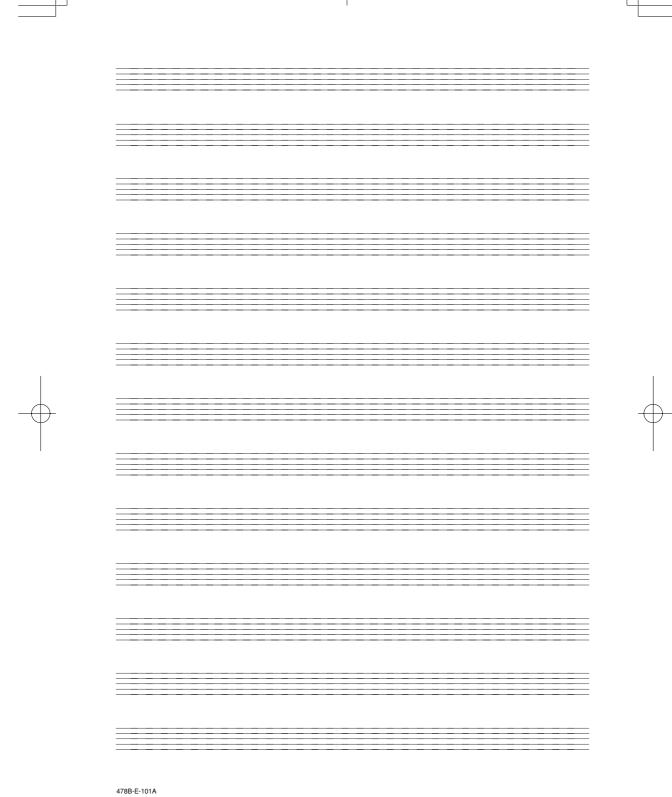


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Model **LK-40 LK-42**

MIDI Implementation Chart

Version: 1.0

LN-47	12			
Funci	Function	Transmitted	Recognized	Remarks
Basic Channel	Default Changed		1-4, 10 1-4, 10	
Mode	Default Messages Altered	Mode 3 X *******	Mode 3 X ********	
Note Number:	True voice	**************************************	0-127 36-96 *1	*1: Depends on tone
Velocity	Note ON Note OFF	O 9nH v = 75, 100 *2 X 9nH v = 0	O 9nH v = 1-127 X 9nH v = 0,8nH v = *3	*3 = no relation
After Touch	Key's Ch's	××	××	
Pitch Bender	-	×	0	
Control	6,38 7 10 11	***	0×0××	Modulation Data entry Volume Pan Expression
				:
	64 100,101 120 121	××××	Q×××	Hold1 RPN LSB, MSB All sound off Reset all controller
Program		66-0 O	O 0-127, 0-99 *4	*4: Depends on GM Map

	6,38	×××	0 × 0	Modulation Data entry Volume
Change	. 0 1	«××	0××	Pan Expression
	64 100,101 120 121	***	0×××	Hold1 RPN LSB, MSB All sound off Reset all controller
Program Change:	True #	%**************	O 0-127, 0-99 *4 *******	*4: Depends on GM Map setting
System Exclusive	clusive	×	×	
System Common	: Song Pos : Song Sel : Tune	***	***	
System Real Time	: Clock : Commands	××	××	
Aux Messages	Aux : Local ON/OFF : All notes OFF Messages : Active Sense : Reset	***	***	
Remarks		*2: V(Velocity)=100 when to 2, and V=75 when th	note on data when the main ne main volume value is 1 or	*2: V(Velocity)=100 when note on data when the main volume value of this unit is 9 to 2, and V=75 when the main volume value is 1 or 0.

Mode 1: OMNI ON, POLY Mode 2: C Mode 3: OMNI OFF, POLY Mode 4: C

Mode 2 : OMNI ON, MONO Mode 4 : OMNI OFF, MONO

O : Yes : No

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